

Meehanite K-295 Austempered Ductile Iron

Category : Metal , Ferrous Metal , Cast Iron , Alloy Cast Iron , Ductile Iron

Material Notes:

Type K-295 is used for applications such as gears requiring high contact rolling and tooth bending fatigue properties. Type K-295 also possess high fracture toughness impact strength. Excellent founding properties enable more accurate castings with savings in machine stock required. Damping capacity and notch sensitivity are superior to steel castings and forgings. Self-lubricating properties make Type K-405 ideal for wear conditions involving minimal lubrication. General Meehanite information - Meehanite metal is first melted to a definite degree of undercooling or constitution which is related to the section of the casting to be poured and the range of physical properties such as tensile strength and hardness required. Nucleation with patented mixtures of graphitizing agents results in the removal of undercooling, in the controlled precipitation of graphite and in a fine grained eutectic cell structure which determines the density and physical integrity of the casting. Ordinary cast irons made to chemical specifications which do not include the benefit of controlled undercooling are influenced by mass effect to a maximum degree and for this and other reasons cannot be considered an equivalent to Meehanite metal. Information provided by Meehanite Marketing Association.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Meehanite-K-295-Austempered-Ductile-Iron.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	280 - 310	280 - 310	
Tensile Strength, Ultimate	896 MPa	130000 psi	
Tensile Strength, Yield	676 MPa	98000 psi	
Elongation at Break	8.0 - 12 %	8.0 - 12 %	
Fatigue Strength	269 MPa	39000 psi	Endurance Limit (Notched)
	434 MPa	63000 psi	Endurance Limit (Unnotched)

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